

Statistical System

Word Suggestion Problem:

1. What is character ngram?, context : word level ngram.
2. Dense vectorizer??, vectorizer with removed zeros.
- 3.

Randomness

coin(fair) => Flip 50% H, 50% T

biased coin => 70% H, 30% T

Dictionary vectorizer

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document => words [white space delimited]

doc against word_index(frequency) vector table

	1	2	3	4 ...
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d1		freq or tf/idf
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d2		
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d3		
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Replace document to word like w1, w2, ... wn

Index: we create using ngrams of character.

How do we create ngram of characters:

n = 2

availabilities:

{av, va, ai,}

n = 3

{ava, vai, ial, ...}

consideration:

Multigrams, $n = 2, 3, 4$

All vectors:

V_1 to V_n .

{av, va, ai, ..., ava, vai, ila,, avai, ...}

like bag of words for a document.

we index it and prepare a table.

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Query part:

Given word: avilabiltes

Vectorize: with same strategies. for example $n = 2, 3, 4$.

V_q

how find it?

V_q dot product with V_1 to V_n .

v_1 to v_n and we sort based score and get first n words as high ranged words.

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Next Meeting:

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10th July, 2:00PM to 3:00PM